

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 13

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	779.5	23205	5	1	0	23.04
16QAM	779.5	23205	5	1	12	23.03
16QAM	779.5	23205	5	1	24	23.14
16QAM	779.5	23205	5	12	0	22.52
16QAM	779.5	23205	5	12	7	22.57
16QAM	779.5	23205	5	12	13	22.57
16QAM	779.5	23205	5	25	0	22.61
16QAM	782	23230	5	1	0	24.27
16QAM	782	23230	5	1	12	24.29
16QAM	782	23230	5	1	24	24.33
16QAM	782	23230	5	12	0	22.56
16QAM	782	23230	5	12	7	22.67
16QAM	782	23230	5	12	13	22.73
16QAM	782	23230	5	25	0	22.71
16QAM	784.5	23255	5	1	0	23.13
16QAM	784.5	23255	5	1	12	23.22
16QAM	784.5	23255	5	1	24	23.31
16QAM	784.5	23255	5	12	0	22.70
16QAM	784.5	23255	5	12	7	22.67
16QAM	784.5	23255	5	12	13	22.51
16QAM	784.5	23255	5	25	0	22.70
64QAM	779.5	23205	5	1	0	22.20
64QAM	779.5	23205	5	1	12	22.31
64QAM	779.5	23205	5	1	24	22.13
64QAM	779.5	23205	5	12	0	20.79
64QAM	779.5	23205	5	12	7	21.13
64QAM	779.5	23205	5	12	13	20.92
64QAM	779.5	23205	5	25	0	20.81
64QAM	782	23230	5	1	0	22.76
64QAM	782	23230	5	1	12	22.76
64QAM	782	23230	5	1	24	22.75
64QAM	782	23230	5	12	0	21.24
64QAM	782	23230	5	12	7	21.41
64QAM	782	23230	5	12	13	21.33
64QAM	782	23230	5	25	0	21.32
64QAM	784.5	23255	5	1	0	22.07
64QAM	784.5	23255	5	1	12	22.25
64QAM	784.5	23255	5	1	24	22.21
64QAM	784.5	23255	5	12	0	20.89
64QAM	784.5	23255	5	12	7	21.13
64QAM	784.5	23255	5	12	13	21.07
64QAM	784.5	23255	5	25	0	20.92

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	779.5	23205	5	1	0	24.07
QPSK	779.5	23205	5	1	12	24.16
QPSK	779.5	23205	5	1	24	24.13
QPSK	779.5	23205	5	12	0	23.33
QPSK	779.5	23205	5	12	7	23.35
QPSK	779.5	23205	5	12	13	23.21
QPSK	779.5	23205	5	25	0	23.34
QPSK	782	23230	5	1	0	24.30
QPSK	782	23230	5	1	12	24.43
QPSK	782	23230	5	1	24	24.44
QPSK	782	23230	5	12	0	23.63
QPSK	782	23230	5	12	7	23.72
QPSK	782	23230	5	12	13	23.71
QPSK	782	23230	5	25	0	23.70
QPSK	784.5	23255	5	1	0	24.10
QPSK	784.5	23255	5	1	12	24.10
QPSK	784.5	23255	5	1	24	24.23
QPSK	784.5	23255	5	12	0	23.42
QPSK	784.5	23255	5	12	7	23.50
QPSK	784.5	23255	5	12	13	23.49
QPSK	784.5	23255	5	25	0	23.32

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	782	23230	10	1	0	24.12
16QAM	782	23230	10	1	25	24.28
16QAM	782	23230	10	1	49	24.41
16QAM	782	23230	10	25	0	22.66
16QAM	782	23230	10	25	12	22.47
16QAM	782	23230	10	25	25	22.72
16QAM	782	23230	10	50	0	22.52
16QAM	782	23230	10	1	0	24.13
16QAM	782	23230	10	1	25	24.16
16QAM	782	23230	10	1	49	24.48
16QAM	782	23230	10	25	0	22.71
16QAM	782	23230	10	25	12	22.72
16QAM	782	23230	10	25	25	22.83
16QAM	782	23230	10	50	0	22.83
16QAM	782	23230	10	1	0	24.07
16QAM	782	23230	10	1	25	24.15
16QAM	782	23230	10	1	49	23.56
16QAM	782	23230	10	25	0	22.55
16QAM	782	23230	10	25	12	22.36
16QAM	782	23230	10	25	25	22.74
16QAM	782	23230	10	50	0	22.45
64QAM	782	23230	10	1	0	23.28
64QAM	782	23230	10	1	25	23.09
64QAM	782	23230	10	1	49	23.27
64QAM	782	23230	10	25	0	21.06
64QAM	782	23230	10	25	12	21.18
64QAM	782	23230	10	25	25	21.38
64QAM	782	23230	10	50	0	21.23
64QAM	782	23230	10	1	0	22.44
64QAM	782	23230	10	1	25	22.52
64QAM	782	23230	10	1	49	22.88
64QAM	782	23230	10	25	0	21.27
64QAM	782	23230	10	1	0	23.20
64QAM	782	23230	10	1	25	23.10
64QAM	782	23230	10	1	49	23.17
64QAM	782	23230	10	25	0	20.94
64QAM	782	23230	10	25	12	21.06
64QAM	782	23230	10	25	25	21.25
64QAM	782	23230	10	50	0	21.10
64QAM	782	23230	10	25	12	21.48
64QAM	782	23230	10	25	25	21.66
64QAM	782	23230	10	50	0	21.49

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	782	23230	10	1	0	24.03
QPSK	782	23230	10	1	25	24.21
QPSK	782	23230	10	1	49	24.46
QPSK	782	23230	10	25	0	23.35
QPSK	782	23230	10	25	12	23.40
QPSK	782	23230	10	25	25	23.53
QPSK	782	23230	10	50	0	23.43
QPSK	782	23230	10	1	0	24.51
QPSK	782	23230	10	1	25	24.57
QPSK	782	23230	10	1	49	24.72
QPSK	782	23230	10	25	0	23.66
QPSK	782	23230	10	25	12	23.66
QPSK	782	23230	10	25	25	23.76
QPSK	782	23230	10	50	0	23.76
QPSK	782	23230	10	1	0	24.25
QPSK	782	23230	10	1	25	24.31
QPSK	782	23230	10	1	49	24.52
QPSK	782	23230	10	25	0	23.40
QPSK	782	23230	10	25	12	23.44
QPSK	782	23230	10	25	25	23.42
QPSK	782	23230	10	50	0	23.48

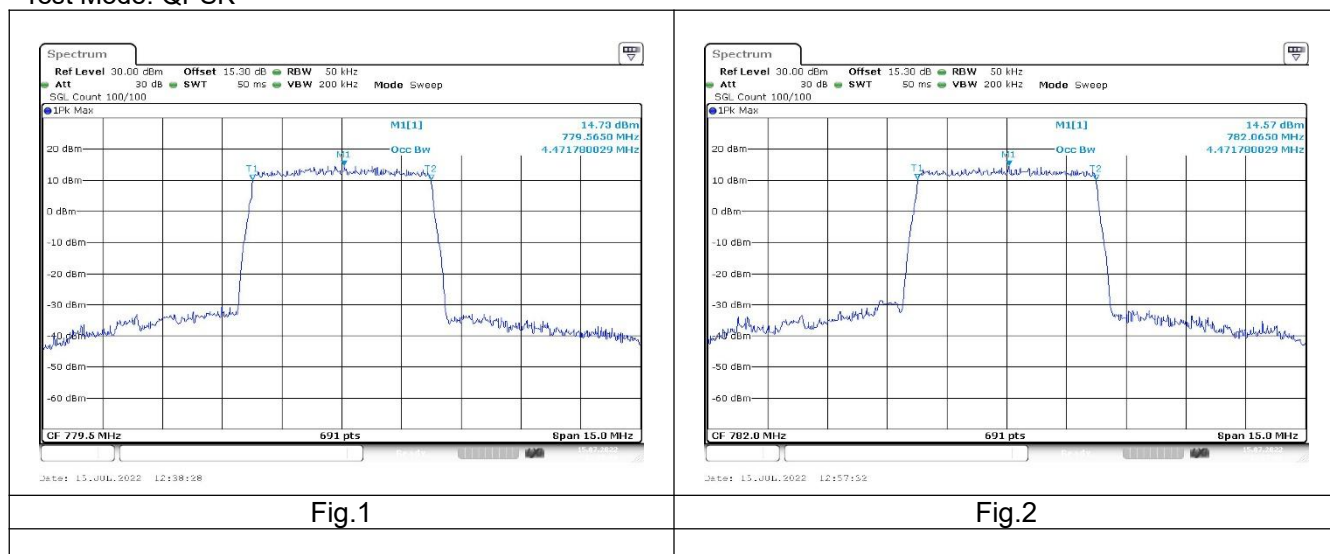
2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
13	QPSK	779.5	23205	5	25	0	4.472	Fig.1
13	QPSK	782	23230	5	25	0	4.472	Fig.2
13	QPSK	784.5	23255	5	25	0	4.493	Fig.3
13	QPSK	782	23230	10	50	0	8.944	Fig.4
13	QPSK	782	23230	10	50	0	8.944	Fig.5
13	QPSK	782	23230	10	50	0	8.944	Fig.6

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
13	16QAM	779.5	23205	5	25	0	4.472	Fig.7
13	16QAM	782	23230	5	25	0	4.472	Fig.8
13	16QAM	784.5	23255	5	25	0	4.472	Fig.9
13	16QAM	782	23230	10	50	0	8.944	Fig.10
13	16QAM	782	23230	10	50	0	8.944	Fig.11
13	16QAM	782	23230	10	50	0	8.944	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
13	64QAM	779.5	23205	5	25	0	4.472	Fig.13
13	64QAM	782	23230	5	25	0	4.472	Fig.14
13	64QAM	784.5	23255	5	25	0	4.493	Fig.15
13	64QAM	782	23230	10	50	0	8.944	Fig.16
13	64QAM	782	23230	10	50	0	8.987	Fig.17
13	64QAM	782	23230	10	50	0	8.944	Fig.18

Test Mode: QPSK



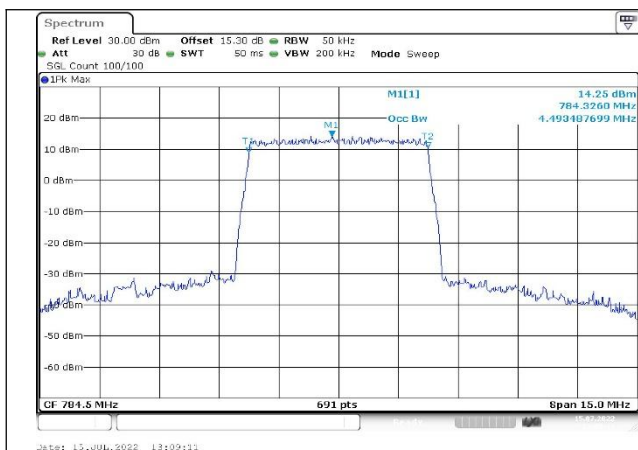


Fig.3

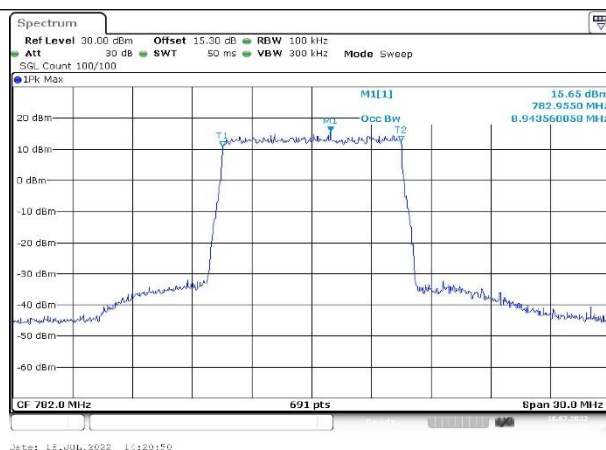


Fig.4

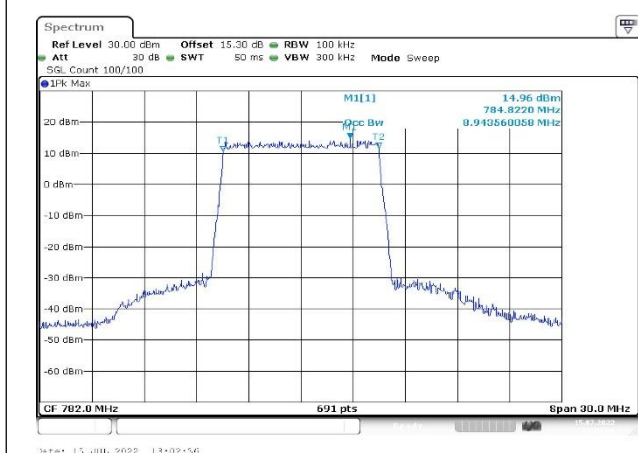


Fig.5

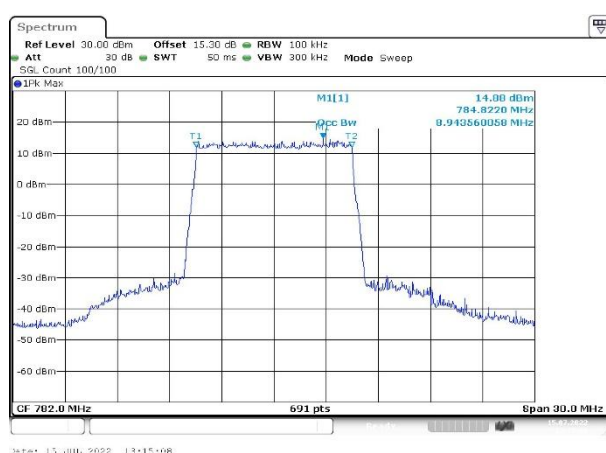


Fig.6

Test Mode: 16QAM

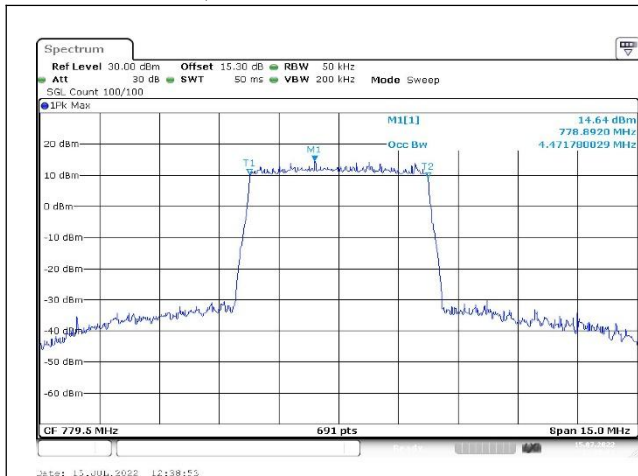


Fig.7

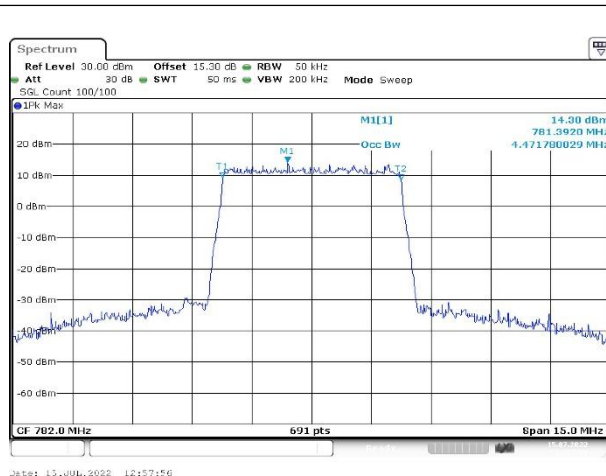
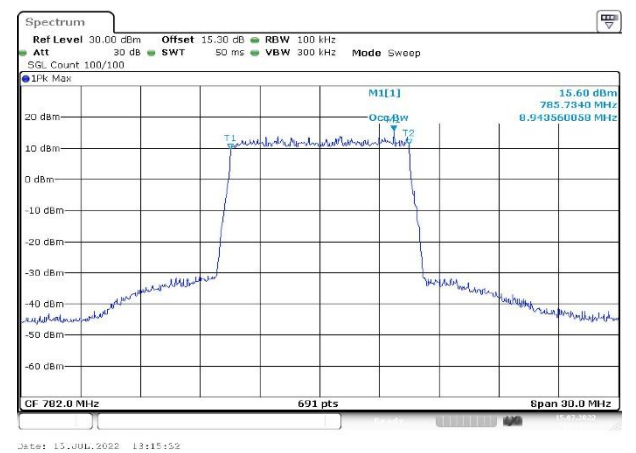
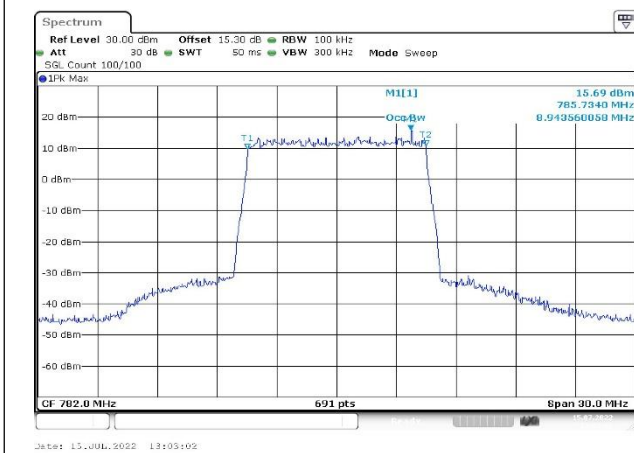
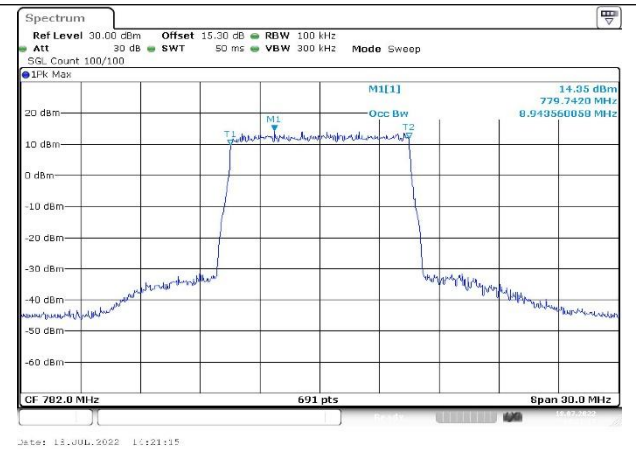
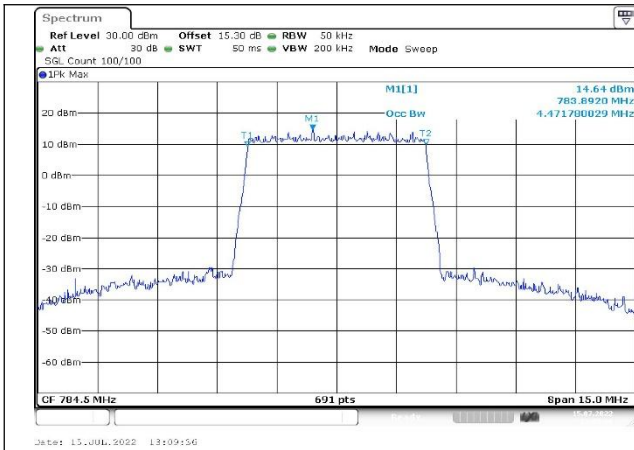
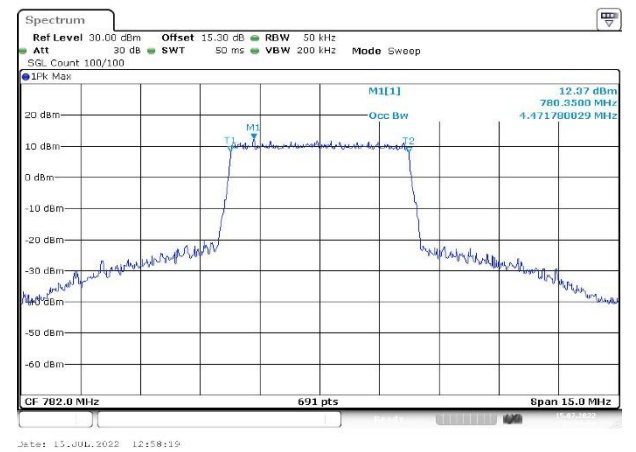
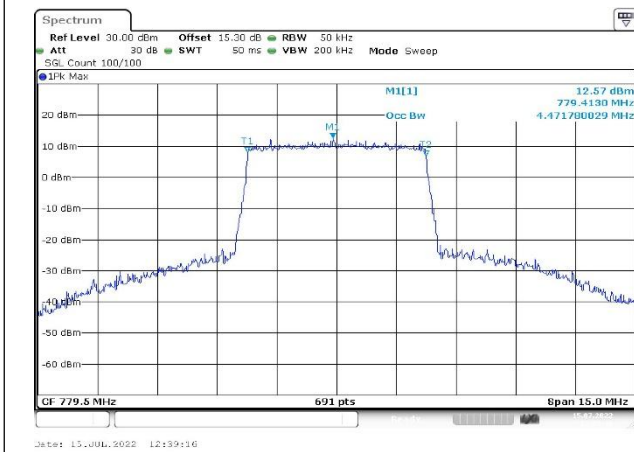


Fig.8



Test Mode: 64QAM



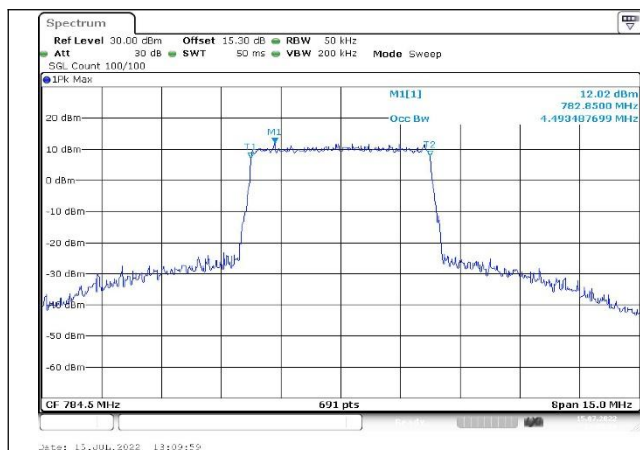


Fig.15

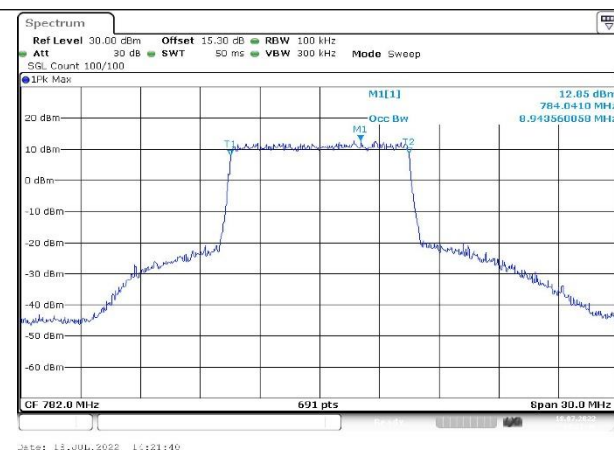


Fig.16

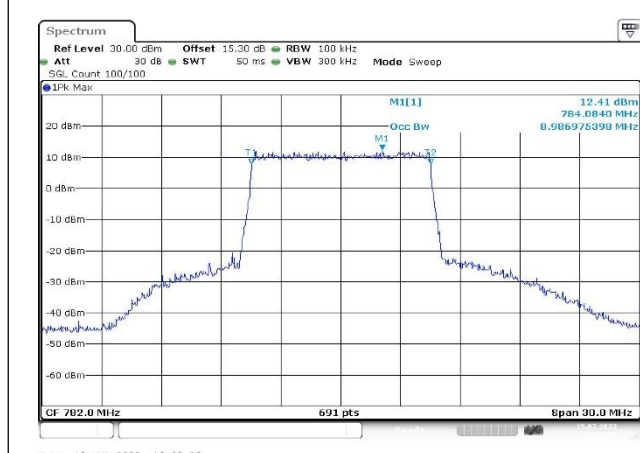


Fig.17

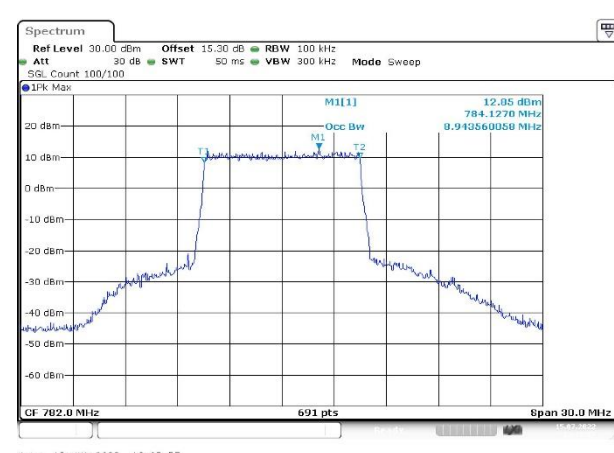


Fig.18

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
13	QPSK	779.5	23205	5	25	0	4.928	Fig.1
13	QPSK	782	23230	5	25	0	4.928	Fig.2
13	QPSK	784.5	23255	5	25	0	4.928	Fig.3
13	QPSK	782	23230	10	50	0	9.725	Fig.4
13	QPSK	782	23230	10	50	0	9.768	Fig.5
13	QPSK	782	23230	10	50	0	9.768	Fig.6

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
13	16QAM	779.5	23205	5	25	0	4.863	Fig.7
13	16QAM	782	23230	5	25	0	4.884	Fig.8
13	16QAM	784.5	23255	5	25	0	4.884	Fig.9
13	16QAM	782	23230	10	50	0	9.725	Fig.10
13	16QAM	782	23230	10	50	0	9.682	Fig.11
13	16QAM	782	23230	10	50	0	9.682	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
13	64QAM	779.5	23205	5	25	0	4.928	Fig.13
13	64QAM	782	23230	5	25	0	4.949	Fig.14
13	64QAM	784.5	23255	5	25	0	4.949	Fig.15
13	64QAM	782	23230	10	50	0	9.682	Fig.16
13	64QAM	782	23230	10	50	0	9.812	Fig.17
13	64QAM	782	23230	10	50	0	9.768	Fig.18

Test Mode: QPSK

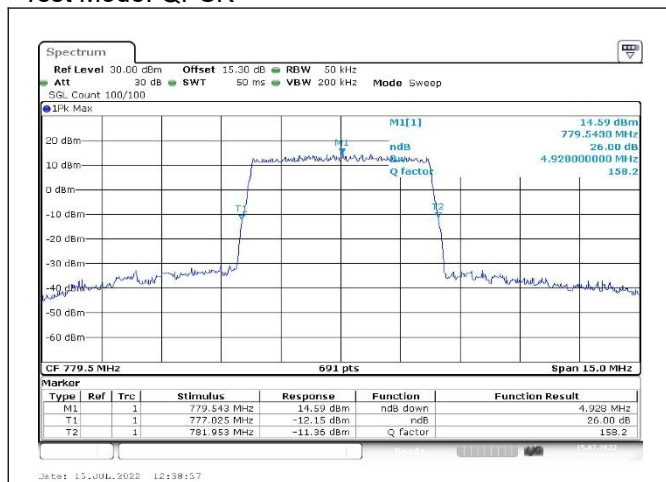


Fig.1

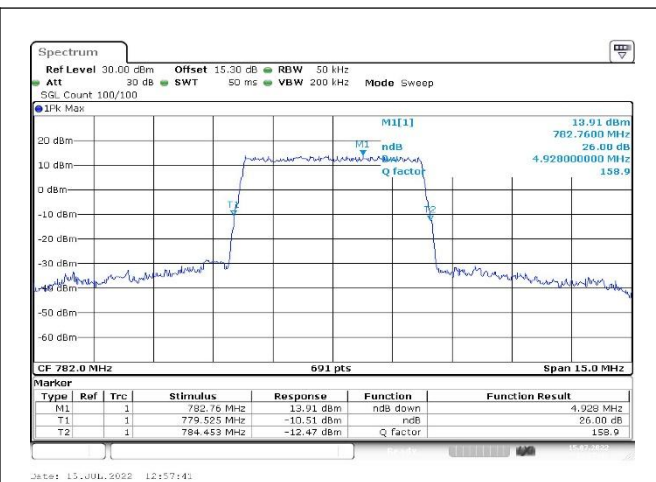


Fig.2



Fig.3



Fig.4

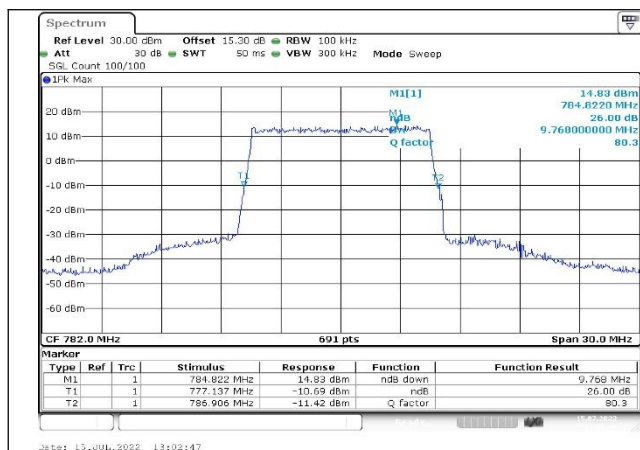


Fig.5

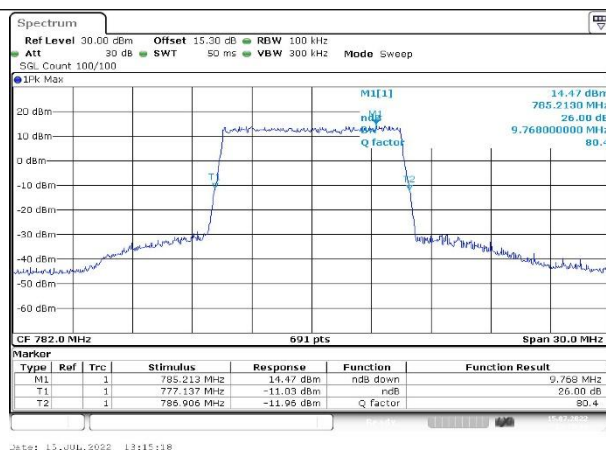


Fig.6

Test Mode: 16QAM

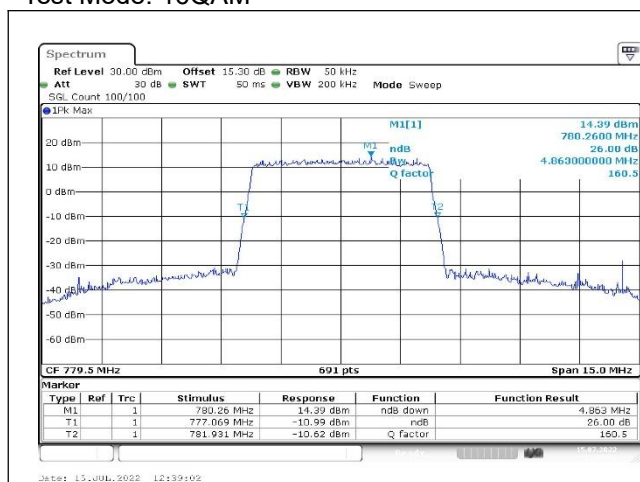


Fig.7

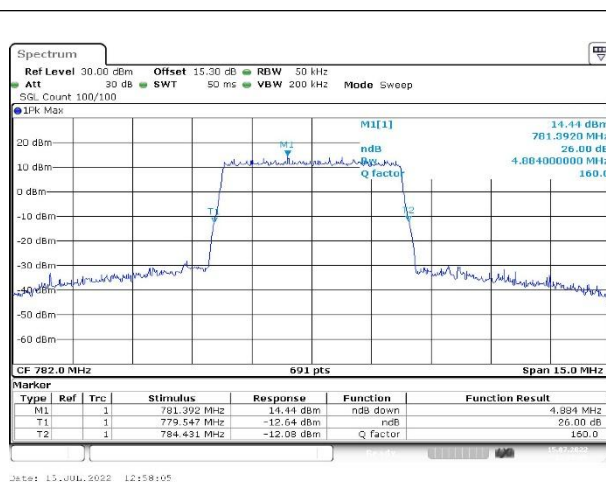


Fig.8

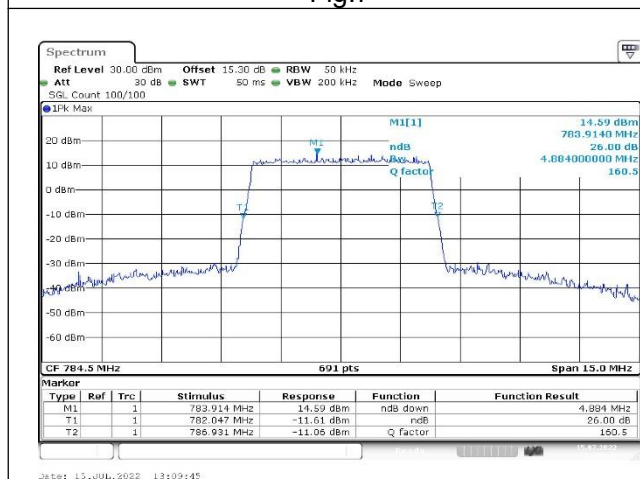


Fig.9



Fig.10

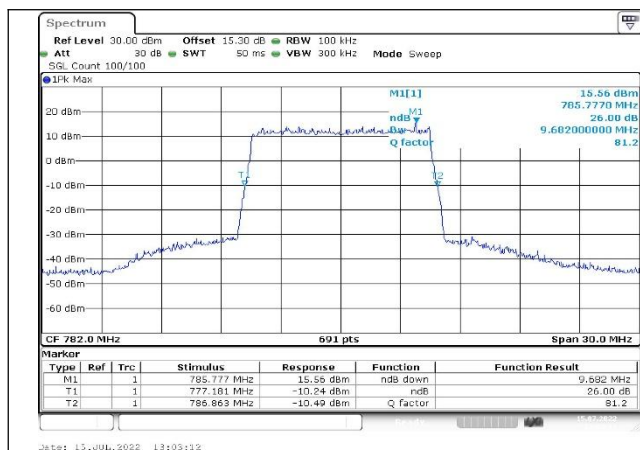


Fig.11



Fig.12

Test Mode: 64QAM

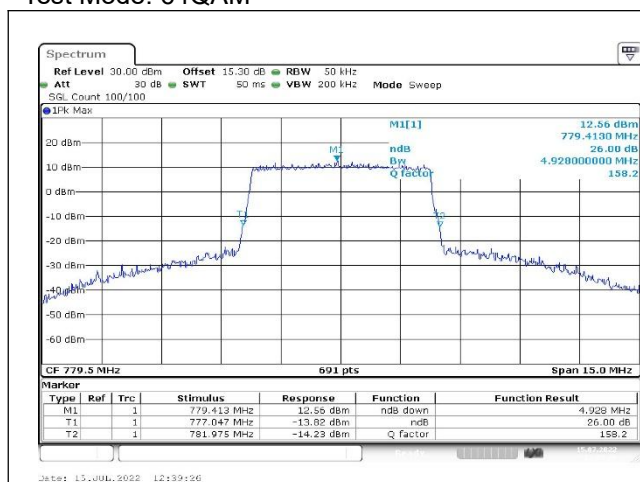


Fig.13

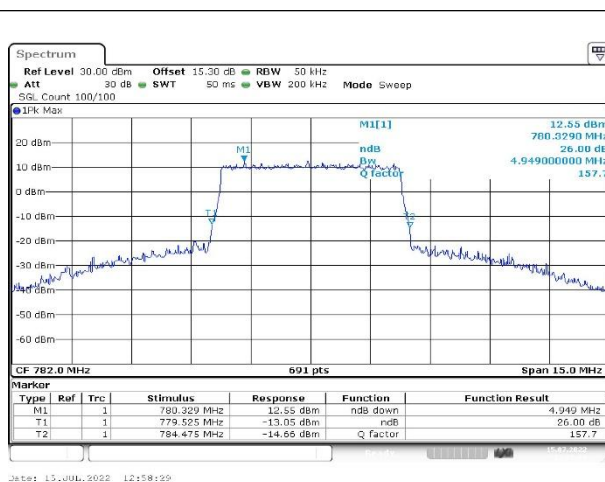


Fig.14

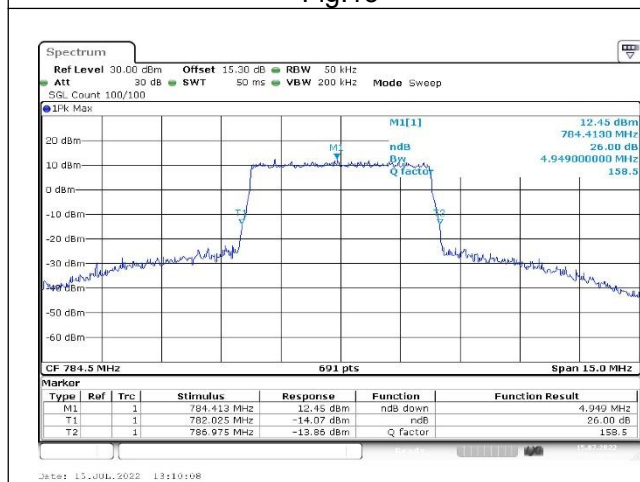


Fig.15



Fig.16

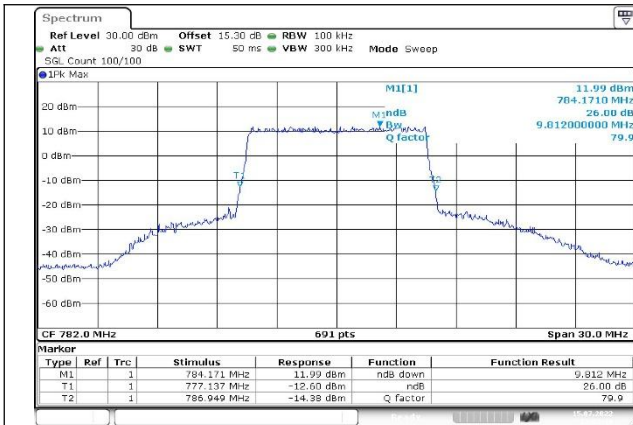


Fig.17

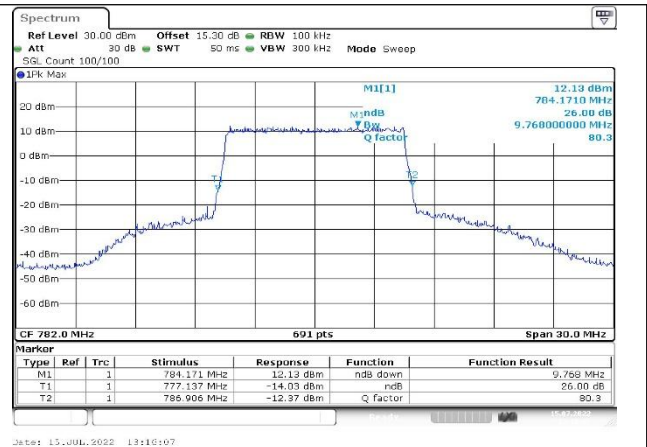


Fig.18

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
13	779.5	23205	5	1	24	Fig.1	Fig.2	Fig.3
13	779.5	23205	5	25	0	Fig.4	Fig.5	Fig.6
13	782	23230	5	1	24	Fig.7	Fig.8	Fig.9
13	782	23230	5	25	0	Fig.10	Fig.11	Fig.12
13	784.5	23255	5	1	24	Fig.13	Fig.14	Fig.15
13	784.5	23255	5	25	0	Fig.16	Fig.17	Fig.18
13	782	23230	10	1	49	Fig.19	Fig.20	Fig.21
13	782	23230	10	50	0	Fig.22	Fig.23	Fig.24
13	782	23230	10	1	49	Fig.25	Fig.26	Fig.27
13	782	23230	10	50	0	Fig.28	Fig.29	Fig.30
13	782	23230	10	1	49	Fig.31	Fig.32	Fig.33
13	782	23230	10	50	0	Fig.34	Fig.35	Fig.36

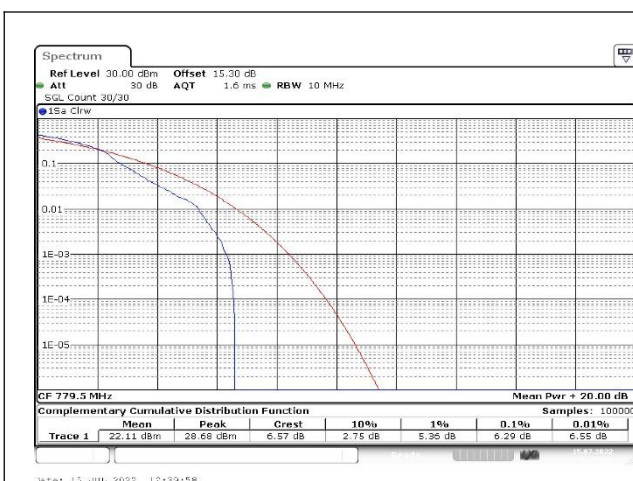


Fig.1

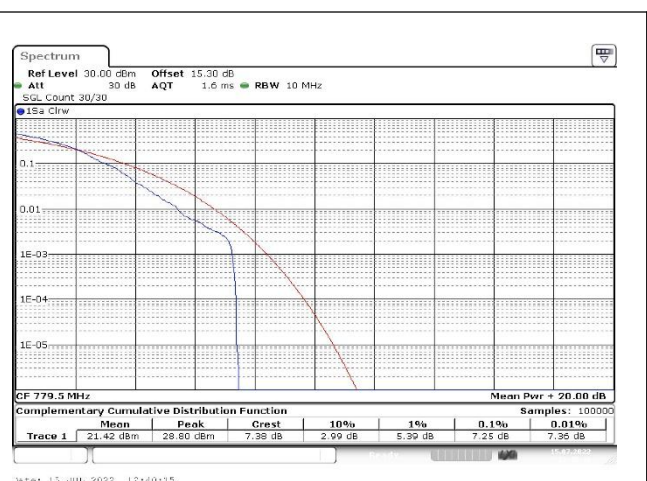


Fig.2

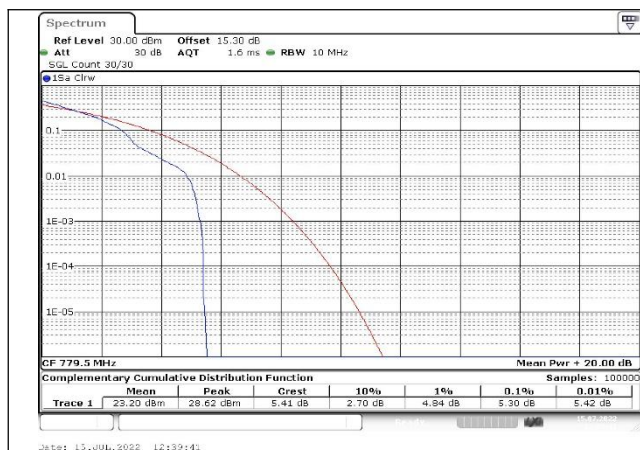


Fig.3

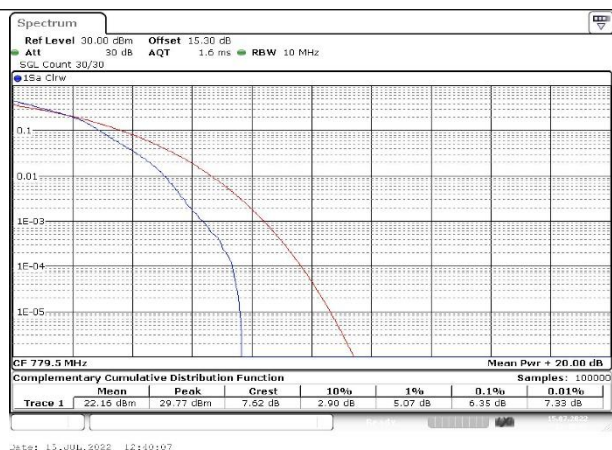


Fig.4

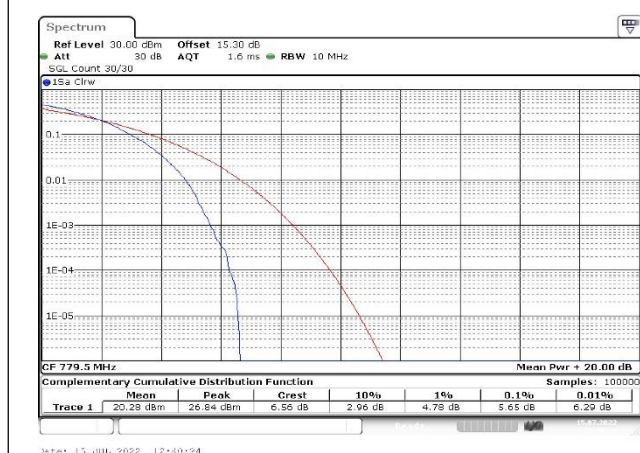


Fig.5

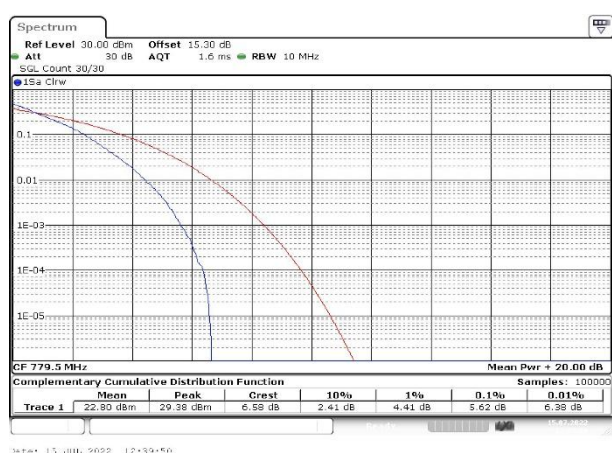


Fig.6

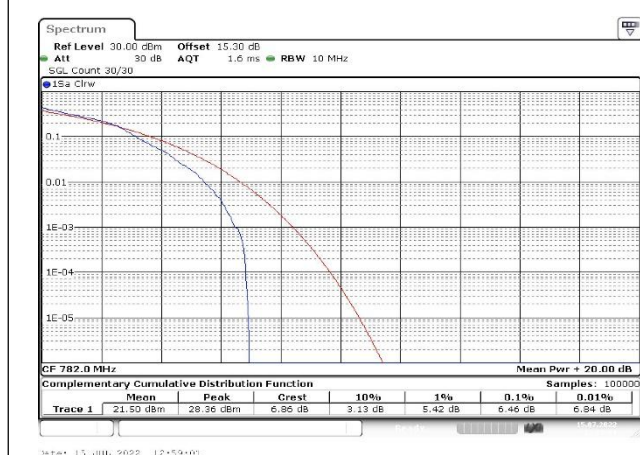


Fig.7

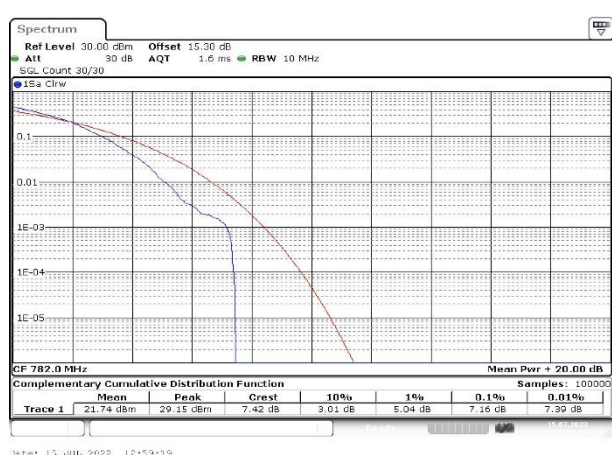


Fig.8

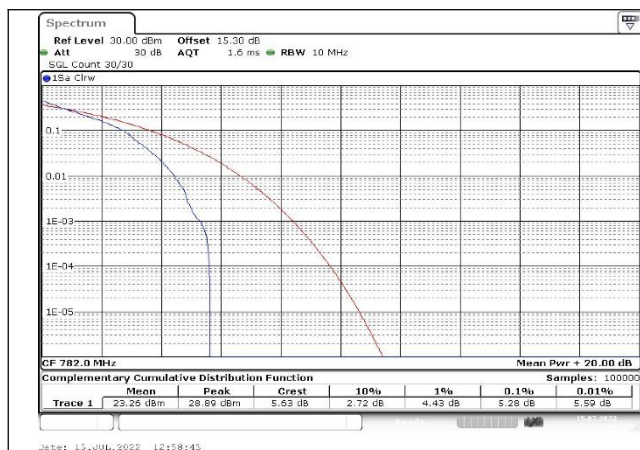


Fig.9

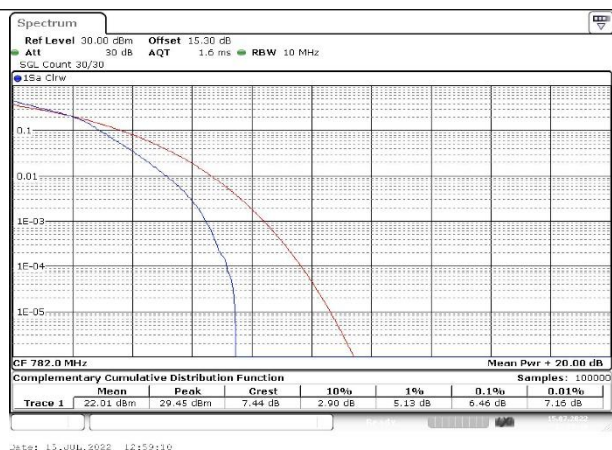


Fig.10

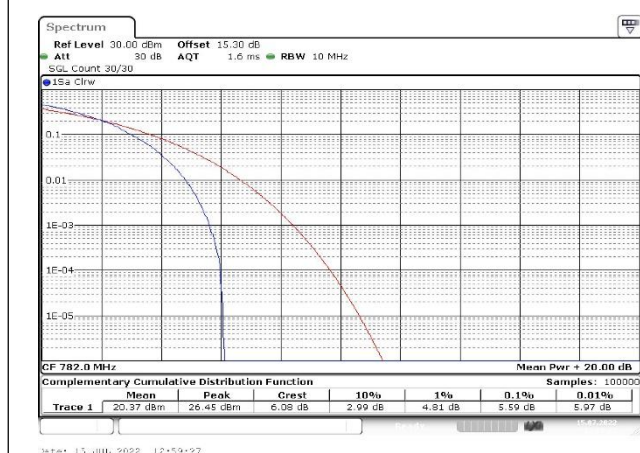


Fig.11

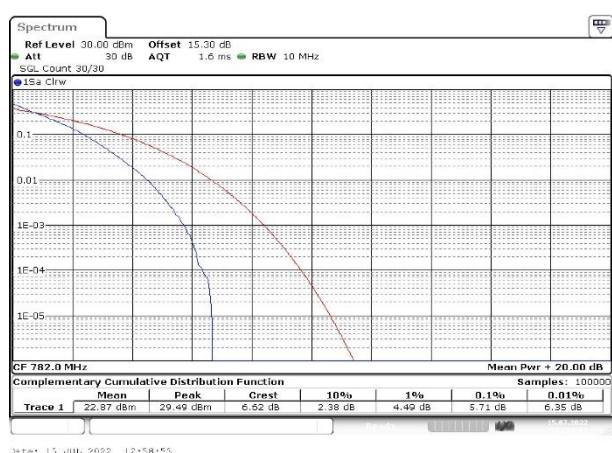


Fig.12

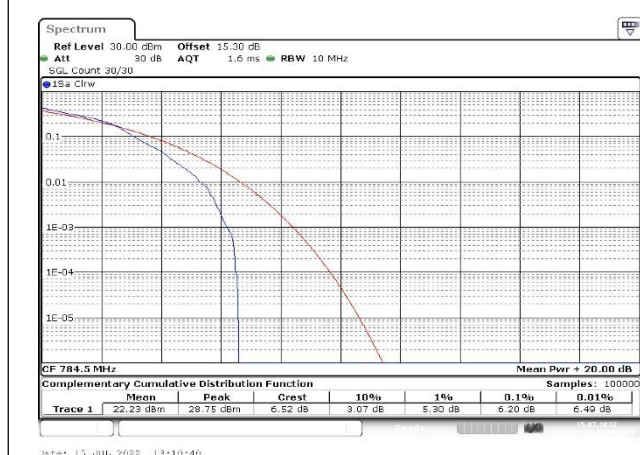


Fig.13

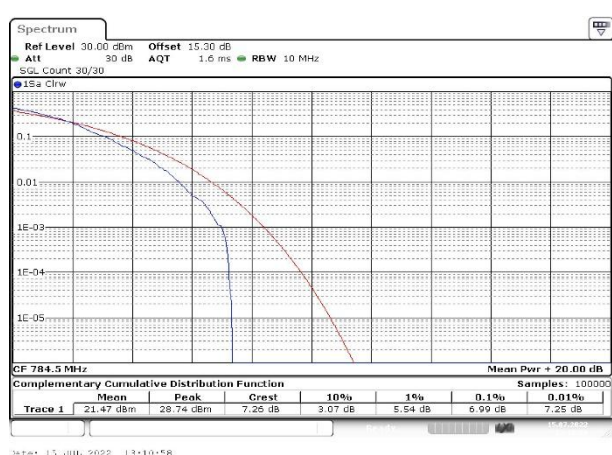


Fig.14

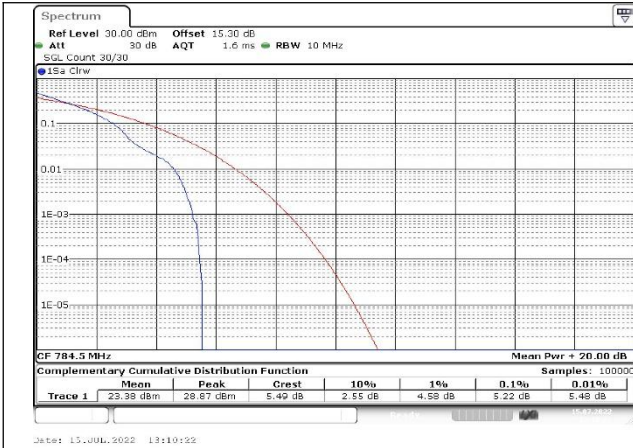


Fig.15

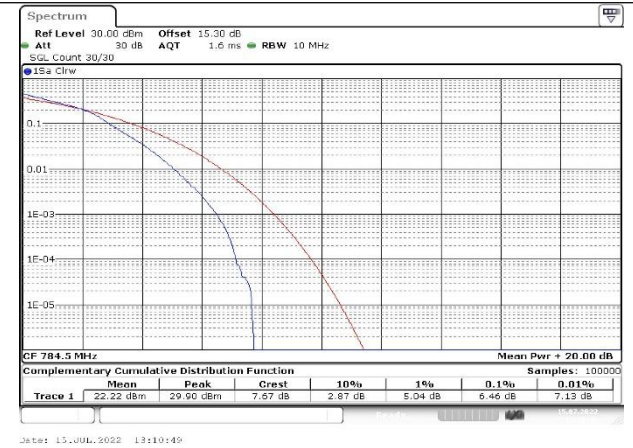


Fig.16

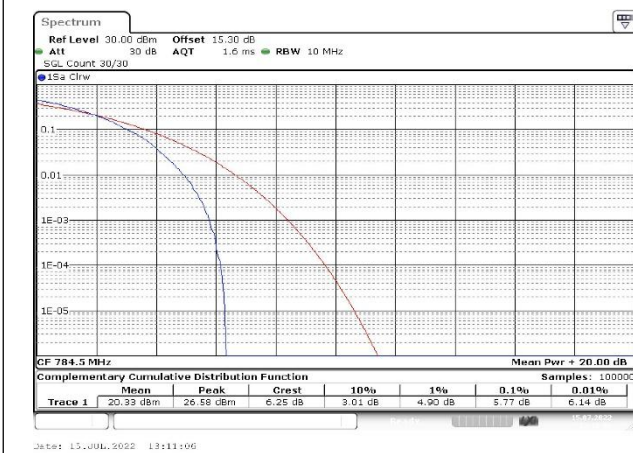


Fig.17

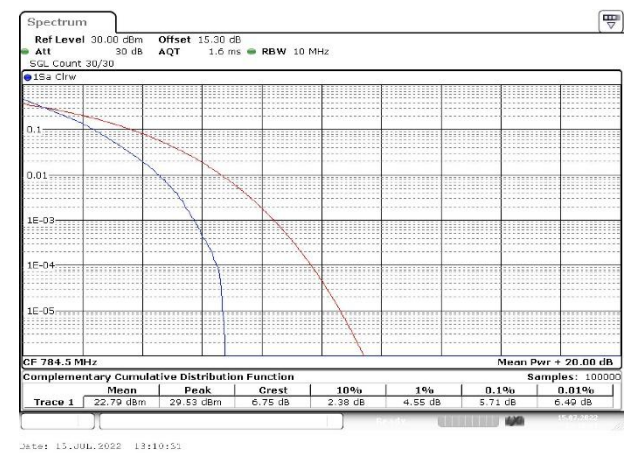


Fig.18

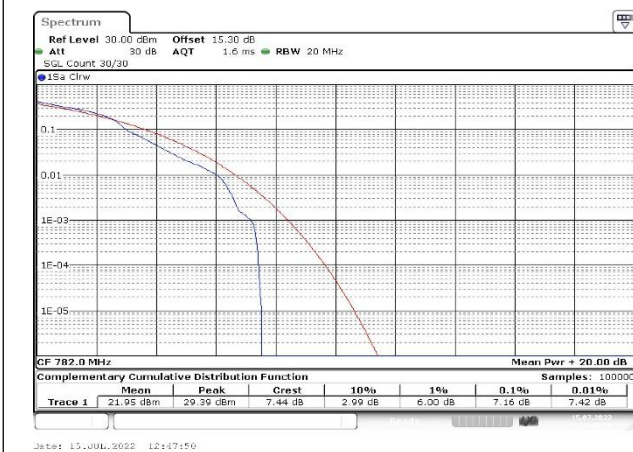


Fig.19

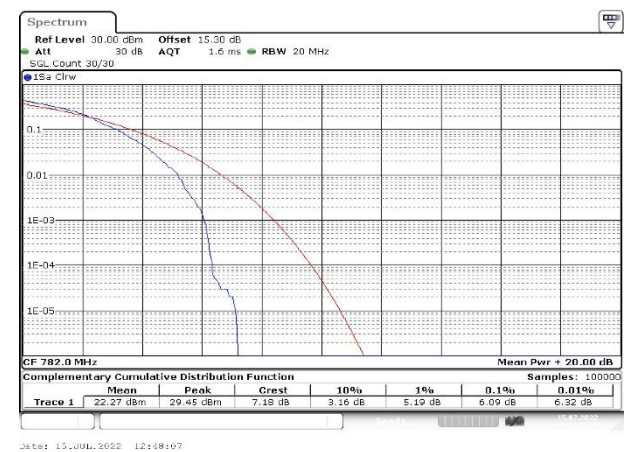
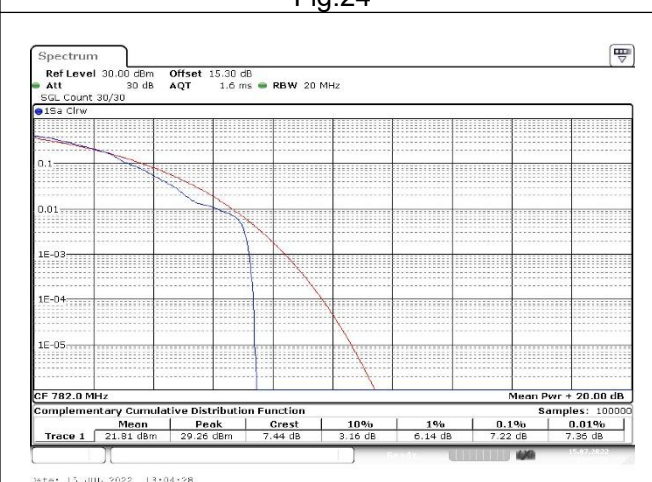
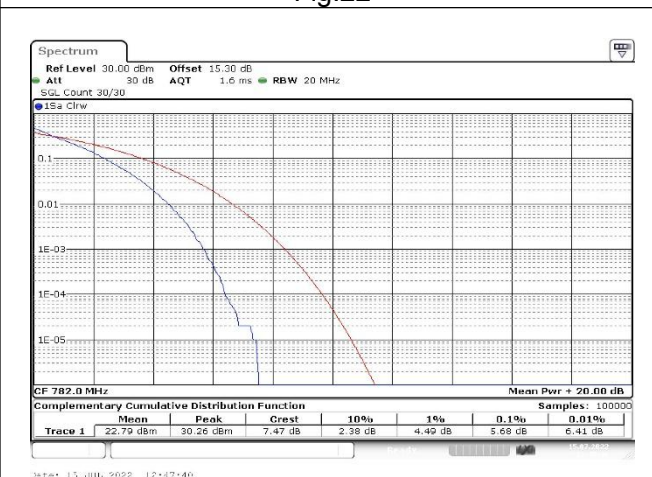
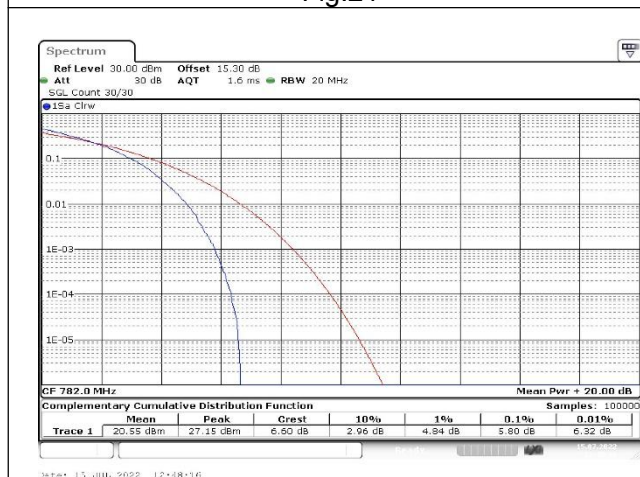
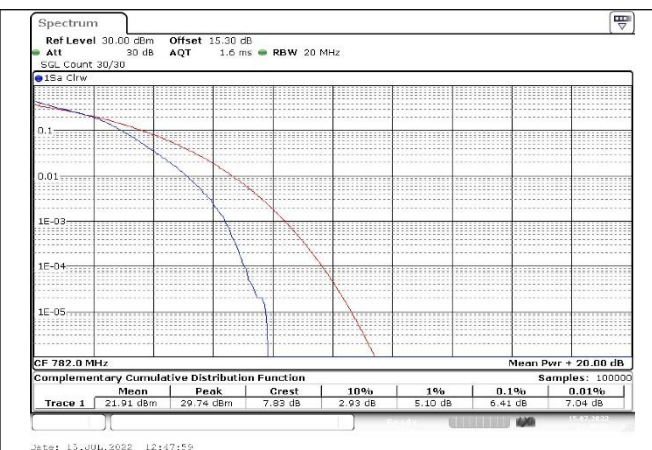
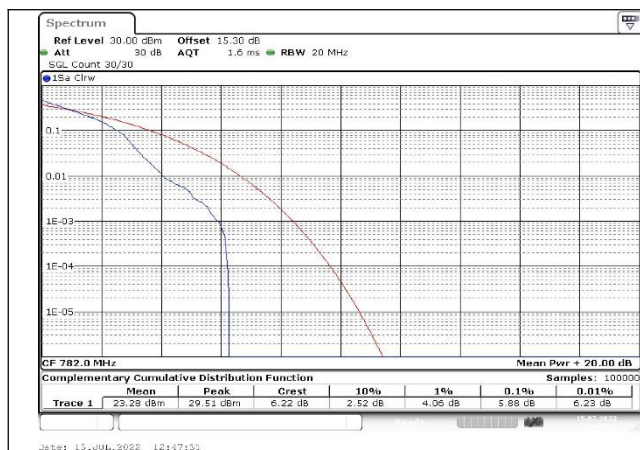


Fig.20



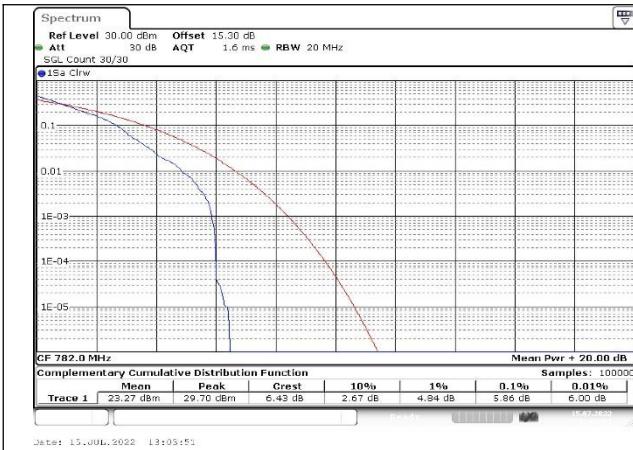


Fig.27

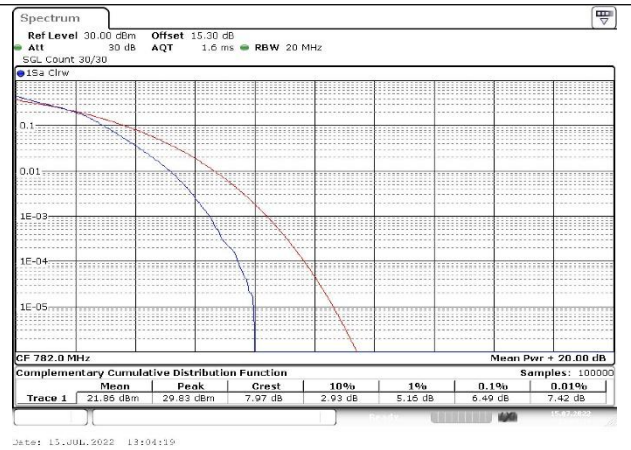


Fig.28

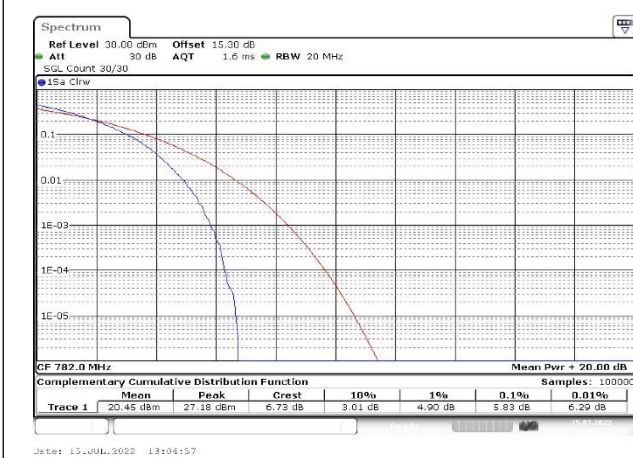


Fig.29

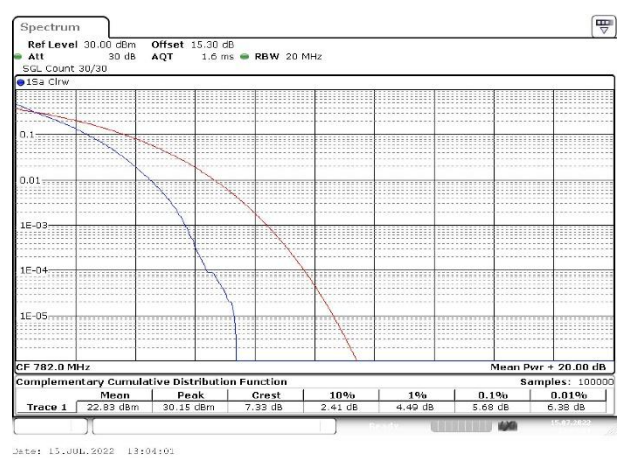


Fig.30

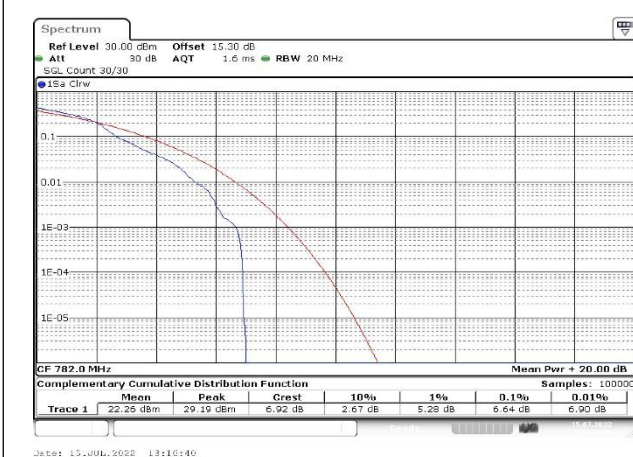


Fig.31

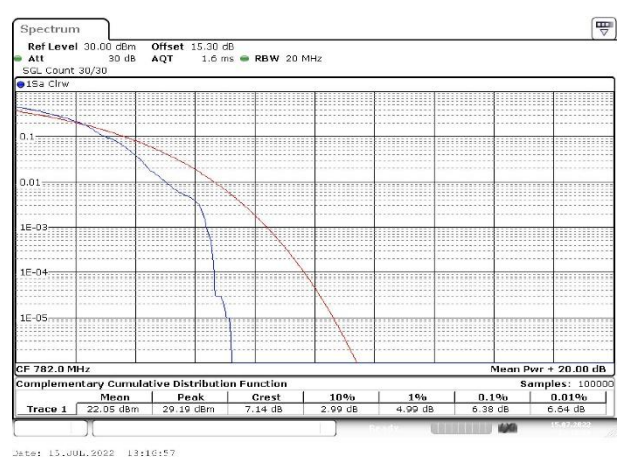


Fig.32

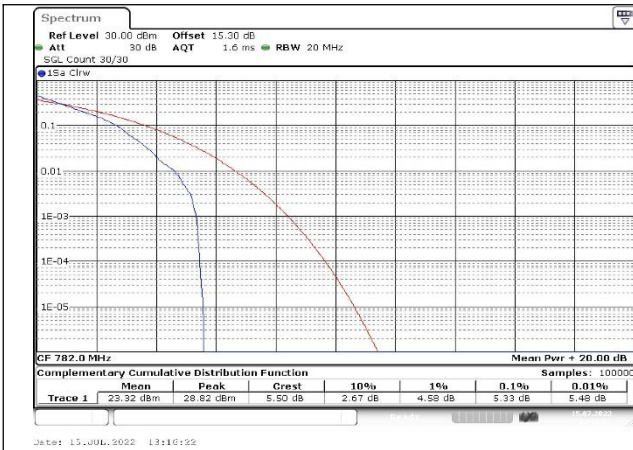


Fig.33

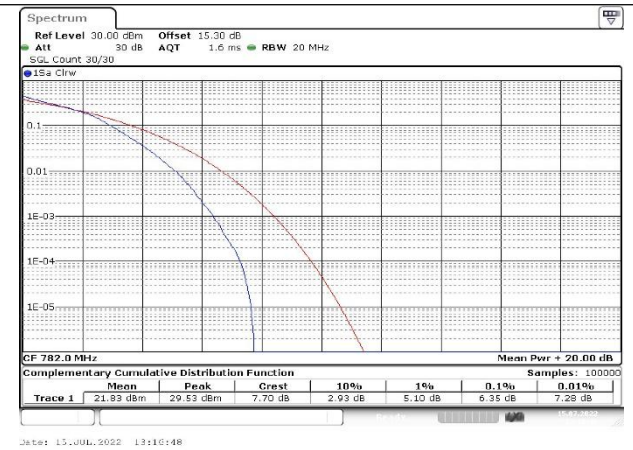


Fig.34



Fig.35

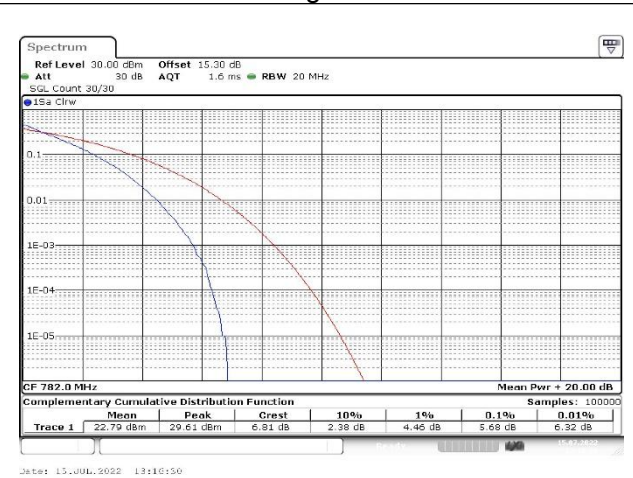


Fig.36